

**BRIEF  
PASSENGER CAR  
DATA**

**1960**



**ETHYL CORPORATION**



# **BRIEF PASSENGER CAR DATA**

**1960**

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**Brief Passenger Car Data for 1960**

**January 1, 1960**

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## NOTICE

The specifications and adjustments contained in this booklet have been compiled by the Research Laboratories of the Ethyl Corporation from information supplied by manufacturers of motor cars, ignition apparatus, spark plugs, etc. None of this information represents the results of tests at the Research Laboratories of the Ethyl Corporation.

This information covers the essential characteristics, in ready reference form, of the 1960 passenger car models. It is correct at date of publication, but changes may be made from time to time by motor car manufacturers.

Data on horsepower, torque, bmep, etc., are that given by the manufacturer. Methods and technique of testing differ in various engineering departments, so these data are frequently not comparable for different makes of cars.

## GENERAL NOTES

### Spark Plugs

The spark plug installed and recommended by the factory is shown first in the specifications with the corresponding AC, Autolite or Champion spark plug shown as an alternate. These plugs are designed for average driving conditions. For heavy-duty or high-speed driving, it may be necessary to use a colder plug in order to obtain satisfactory spark plug life. The necessity for a colder plug is indicated by rapid electrode wear.

It is sometimes necessary to change to a plug which is hotter than the factory equipment plug for very light service, especially in metropolitan areas. If an engine is not pumping oil and the ignition system is in good condition but the spark plug consistently fouls — the need for a hotter plug is indicated. Caution should be exercised in using hotter than standard plugs as they are likely to cause preignition if the vehicle is subjected to high-speed driving.

### Ignition Timing

Ignition timing is given in crankshaft degrees and is factory setting. All distributors are provided with an adjustment enabling the ignition timing to be reset without disturbing the calibration of the distributor advance mechanism. Retarded ignition timing will eliminate or reduce detonation but will result in decreased performance and fuel economy. Also, in most cases, an ignition setting slightly in advance of the factory setting will result in additional performance and economy, although such an ignition setting will require a fuel of higher antiknock value than the standard setting.

### Carburetors

Carburetors should not be adjusted or jets changed except by qualified mechanics. Correct fuel (or float) levels are extremely important to satisfactory performance and fuel economy — factory specifications should be strictly maintained.

### Transmissions and Axle Ratio

The transmissions which are available as standard or optional equipment are listed with the axle ratios which are used as standard equipment with each type of transmission. In some instances additional axle ratios are available as optional equipment. A description of the automatic transmissions is given on pages 29, 30 and 31.

### Shipping Weight

The shipping weight is given for the four-door sedan with standard equipment. The weight of optional equipment such as radios, heaters, and automatic transmissions, etc., is not included. If the automatic transmission is included as standard equipment on the car, its weight is included in the shipping weight.

# LIST OF ABBREVIATIONS

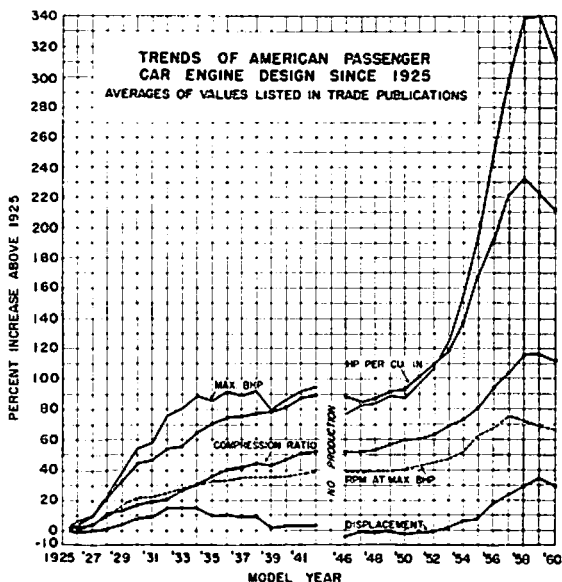
AC	AC Spark Plug Division, GMC
Adv	Advance
AL	The Electric Autolite Company
AMA	Automobile Manufacturers Association
ATC	After Top Center
BHP	Brake Horsepower
Bmep	Brake mean effective pressure
BTC	Before Top Center
C	Cold (valve adjustment)
Car	Carter (carburetors)
CAS	Cast Austenitic Steel
Centrif	Centrifugal
Champ	Champion Spark Plug Company
Clr	Clearance
CNS	Chrome Nickel Steel
DD	Downdraft
Deg	Degrees
DR	Delco-Remy Division, GMC
Eng	Engine
Eqpt	Equipment
Exh	Exhaust
H	Hot (valve adjustment)
Hyd Lifters	Hydraulic Lifters
I	In-head (overhead valves)
Int	Intake
L	L-head
Max	Maximum
NA	Not Available
Neg	Negative
No. Cyl	Number of Cylinders
OD	Overdrive
Opt	Optional
Recm Press	Recommended Pressure (tires)
RP	Rochester Products (carburetors)
Sil	Silchrome
Sgl	Single
Std	Standard
Strom	Stromberg Carburetor Company
TDC	Top Dead Center
Trans	Transmission
Vac	Vacuum

**SUMMARY OF CHARACTERISTICS**  
**1960 UNITED STATES PASSENGER CARS**  
**Specifications for Four-Door Sedans**

	1959	1960	Change
Number of Makes .....	17	18	+1
Number of Models .....	48	54	+6

**ENGINE CHARACTERISTICS**

Average Compression Ratio .....	9.50	9.33	-0.17
Highest Standard Compression Ratio .....	10.5	10.5	....
Lowest Standard Compression Ratio .....	8.0	8.0	....
Average Displacement, Cubic Inches .....	338	328	-12
Average Maximum Brake Horsepower .....	260	243	-17
Average RPM at Maximum Horsepower .....	4448	4382	-66
Average Horsepower Per Cubic Inch .....	0.754	0.729	-0.025
Average Brake Mean Effective Pressure, PSI .....	157.6	158.2	+1.4
Maximum Horsepower Per Cubic Inch .....	0.885	0.885	....
Minimum Horsepower Per Cubic Inch .....	0.460	0.460	....
Average Shipping Weight .....	3861	3797	-64
Average Lb/Hp—6 Passenger Sedan .....	16.2	17.1	+0.9



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# BUICK

CAR MODEL	LeSabre Series 4400	Invicta Series 4600	Electra Series 4700 and 4800
<b>ENGINE</b>			
No. Cyl-Head Type .....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in) .....	4.125 x 3.4	4.188 x 3.64	4.188 x 3.64
Displacement (cu in) .....	364	401	401
AMA Horsepower .....	54.45	56.11	56.11
Max Horsepower @ rpm .....	250 @ 4400 (1)	325 @ 4400	325 @ 4400
Max Torque, lb-ft @ rpm .....	384 @ 2400 (1)	445 @ 2800	445 @ 2800
Max bmep, lb/sq in .....	159.1	167.3	167.3
Compression Ratio .....	10.25 (1)	10.25	10.25
<b>IGNITION</b>			
Spark Plug—Factory Eqpt .....	AC 44S	AC 44S	AC 44S
Alternate .....		AL A42, Champ J12Y	
Spark Plug Gap (in) .....	.030 to .035	.030 to .035	.030 to .035
Firing Order .....		1-2-7-8-4-5-6-3	
Distributor Model .....	DR 1110961 (2)	DR 1110961	DR 1110961
Breaker Gap (in) .....	.0125 to .0175	.0125 to .0175	.0125 to .0175
Cam Angle (degrees) .....	30	30	30
Basic Timing .....	12°BTC (3)	12°BTC	12°BTC
Battery—Volts, Ground .....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in) .....	Int 1.875; 0.443 Exh 1.50; 0.439	1.875; 0.439 1.50; 0.441	1.875; 0.439 1.50; 0.441
Tappet Clr—Valve Material .....	Int Exh	Hydraulic Lifters; SAE 8645 Hydraulic Lifters; S11 10 or 2155N	
<b>CARBURETOR</b>			
Make, Model .....	Car WGD or Strom WW	Car AFB or Roch 4GC	
Type and Size (in) .....	2 Bbl; 1.44	4 Bbl; Pri 1.56; Sec 1.69	
<b>TRANSMISSION</b>			
Standard .....	Manual	Twin Turbine	
Optional .....	Twin Turbine		
Axle Ratio with			
Manual .....	3.91	NA	NA
Twin Turbine .....	3.07 (4)	3.23	3.23
<b>CAPACITY</b>			
Oil (Refill) .....	(qt) 4	4	4
Water (incl heater) .....	(qt) 18.5	18.5	18.5
Manual Transmission .....	(pt) 2.5		
Auto. Trans. .... (Refill-qt) .....	12	12	12
Rear Axle .....	(pt) 6.5	6.5	6.5
Gasoline .....	(gal) 20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase .....	(in) 123.0	123.0	126.3
Over-All Length .....	(in) 217.9	217.9	221.2 (5)
Shipping Weight .....	(lb) 4219	4324	4544
Tire Size—Recm Press .....	(lb) 7.60x15-24-24	7.60x15-24-24(6)	8.00x15-24-24

- (1) HP, torque, bmep and CR for engines equipped with optional automatic transmission. Three additional engines are available. With the conventional transmission the CR is 8.5 and power figures are not available. With automatic transmission the CR is 9.0; bhp 235 @ 4400; torque 375 @ 2400. With 10.25 CR, 4-bbl carburetor and dual exhaust 300 bhp @ 4400; 405 lb-ft torque @ 2800.
- (2) DR 1110963 used with 8.5 CR engine. DR 1110962 used with 9.0 CR engine.
- (3) 5°BTC with 8.5 CR engine and conventional transmission.
- (4) 3.23 axle ratio used with optional 4-bbl carburetor power pack.
- (5) 225.9 for Electra "225".
- (6) 8.00x15 optional on Invicta.



# CADILLAC

CAR MODEL	Series 62 & 60 Special	Eldorado	Fleetwood 75
<b>ENGINE</b>			
No. Cyl-Head Type	V-8-I	V-8-I	V-8-I
Bore and Stroke (in)	4.00 x 3.875	4.00 x 3.875	4.00 x 3.875
Displacement (cu in)	390	390	390
AMA Horsepower	51.2	51.2	51.2
Max Horsepower @ rpm	325 @ 4800 (1)	345 @ 4800	325 @ 4800
Max Torque, lb-ft @ rpm	430 @ 3100 (1)	435 @ 3400	430 @ 3100
Max bmep, lb/sq in	166.3	168.2	166.3
Compression Ratio	10.5	10.5	10.5
<b>IGNITION</b>			
Spark Plug—Factory Eqpt	AC 44	AC 44	AC 44
Alternate		Champ J-12Y, AL	A42
Spark Plug Gap (in)	.035	.035	.035
Firing Order		1-8-4-3-6-5-7-2	
Distributor Model	DR 1110932	DR 1110952	DR 1110932
Breaker Gap (in)	.016	.016	.016
Cam Angle (degrees)	28 to 32	28 to 32	28 to 32
Basic Timing	5°BTC	5°BTC	5°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in)	Int 1.875; 0.451 Exh 1.50; 0.451	1.875; 0.451 1.50; 0.451	1.875; 0.451 1.50; 0.451
Tappet Clr—Valve Material	Int Hyd. Lifters; 1041 Aluminized Exh Hyd. Lifters; S11 X-10, 2112N or 21-4N		
<b>CARBURETOR</b>			
Make, Model	Car AFB or RP 4GC	3-RP 2GC	Car AFB or RP 4GC
Type and Size (in)	4 Bbl; Pri 1.44, Sec 1.69	Frt. & Rear 1.69, Center 1.44	4 Bbl; Pri 1.44, Sec 1.69
<b>TRANSMISSION</b>			
Standard	Hydra-Matic	Hydra-Matic	Hydra-Matic
Optional			
Axle Ratio with Hydra-Matic	2.94 (2)	3.21	3.36
Optional Ratio	3.21	2.94 (2)	3.77
<b>CAPACITY</b>			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 19-1/4	19-1/4	19-1/4
Manual Transmission	(pt) 9	9	9
Auto. Trans.	(Refill-qt) 9	9	9
Rear Axle	(pt) 5	5	5
Gasoline	(gal) 21	21	21
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase	(in) 130	130	149.8
Over-All Length	(in) 225	225	244.8
Shipping Weight	(lb) 4805 (3)	(4)	5475
Tire Size—Recm Press.	(lb) 8.00x15-26-26(5) 8.20x15-24-24	8.20x15-28-28	

(1) Eldorado engine optional on all other series.

(2) 3.21 ratio used on air-conditioned cars.

(3) Weight given for 62 four-window sedan; Fleetwood 60 Special is 4880.

(4) Eldorado Seville, 4855; Eldorado Biarritz, 5060 pounds.

(5) All white sidewall tires are 8.20x15.

# CHEVROLET

CAR MODEL	Biscayne, Bel Air and Impala		
	Six	283 V-8	348 V-8
<b>ENGINE</b>			
No. Cyl-Head Type	6-I	V-8-I	V-8-I
Bore and Stroke (in)	3.56 x 3.94	3.875 x 3.00	4.125 x 3.25
Displacement (cu in)	235.5	283	348
AMA Horsepower	30.4	48	54.5
Max Horsepower @ rpm	135 @ 4000	170 @ 4200 (1)	250 @ 4400 (2)
Max Torque, lb-ft @ rpm	217 @ 2200	275 @ 2200 (1)	355 @ 2800 (2)
Max bmep, lb/sq in	139.0	146.5	153.8
Compression Ratio	8.25	8.5 (1)	9.5 (2)
<b>IGNITION</b>			
Spark Plug—Factory Eqpt	AC 44	AC 44	AC 44N
Alternate	A42, J-9Y	A42, J-12Y	AGR 42; N-12Y
Spark Plug Gap (in)	.035	.035	.035
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model	DR 1112403	DR 1110947 (3)	DR 1110948
Breaker Gap (in)	.019	.019	.019
Cam Angle (degrees)	28 to 35	26 to 33	26 to 33
Basic Timing	5°BTC	4°BTC	8°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in)	Int 1.875; 0.328 Exh 1.50; 0.328	1.72; 0.334 1.50; 0.334	1.94; 0.401 1.66; 0.412
Tappet Clearance		Hydraulic Lifters	
Valve Material	Int 1041 Exh 21-4N Alum.	or 8440 21-4N	8440 21-4N Alum.
<b>CARBURETOR</b>			
Make, Model	RP BC	RP 2GC (1)	Car or RP (2)
Type and Size (in)	Sgl; 1.56	2 Bbl; 1.44	4 Bbl; 1.44
<b>TRANSMISSION</b>			
Standard	Manual	Manual	Manual
Optional	Powerglide	Powerglide or Turboglide	
Axle Ratio with Manual	3.55	3.36	3.36 (3.70 with 4-spd)
Overdrive	3.70	3.70	None
Powerglide	3.36	3.08	3.08
Turboglide		3.36	3.08
<b>CAPACITY</b>			
Oil (Refill)	(qt) 5	4	4
Water (Incl heater)	(qt) 18	18.5	22
Manual Transmission	(pt) 2 (4)	2 (4)	2
Auto. Trans.	(Refill-qt) 4.5	Powerglide 4.5; Turboglide 2	
Rear Axle	(pt) 4	4	4
Gasoline	(gal) 20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase	(in) 119	119	119
Over-All Length	(in) 210.8	210.8	210.8
Shipping Weight	(lb) 3560 (5)	3575 (5)	3720 (5)
Tire Size—Recm Press.	(lb) 7.50x14-24-24	7.50x14-24-24	7.50x14-24-24

(1) With optional 4-bbl carburetor and 9.5 CR, 230 bhp @ 4800 rpm, 300 lb-ft @ 3000.

(2) With optional three 2-bbl carburetors 280 bhp @ 4800, 355 lb-ft @ 3200. With Powerglide transmission, special camshaft, 4-bbl carburetor and 11:1 CR 305 bhp @ 5600, 350 lb-ft @ 3600. With manual transmission, special camshaft and 11.25 CR, 320 bhp @ 5600, 358 lb-ft @ 3600 with 4-bbl carburetor and 335 bhp @ 5800, 362 lb-ft @ 3600 with 3-2 bbl carburetors.

(3) Delco-Remy 1110946 distributor used on 9.5 CR 4-bbl carburetor engine.

(4) One pint additional with overdrive.

(5) Weight given for Bel Air four-door sedan with manual transmission.

# CHEVROLET

CAR MODEL	Corvaire 500-700	Corvette
<b>ENGINE</b>		
No. Cyl-Head Type .....	Horizontal opposed 6-I	V-8-I
Bore and Stroke (in) .....	3.375 x 2.6	3.875 x 3.0
Displacement (cu in) .....	140	283
AMA Horsepower .....	27.3	48
Max Horsepower @ rpm .....	80 @ 4400	230 @ 4800 (1)
Max Torque, lb-ft @ rpm .....	125 @ 2400	300 @ 3000 (1)
Max bmep, lb/sq in .....	134.6	159.9
Compression Ratio .....	8.0	9.5 (1)
<b>IGNITION</b>		
Spark Plug—Factory Eqp .....	AC 44-FF	AC 44 (2)
Alternate .....	AL AE42	AL A42, J-12Y
Spark Plug Gap (in) .....	.035	.033 to .038
Firing Order .....	1-4-5-2-3-6	1-8-4-3-6-5-7-2
Distributor Model .....	DR 1110252	DR 1110946 (2)
Breaker Gap (in) .....	.019	.019
Cam Angle (degrees) .....	32 to 34	26 to 33
Basic Timing .....	4°BTC	4°BTC (3)
Battery—Volts, Ground .....	12, Negative	12, Negative
<b>VALVES</b>		
Size and Lift (in) .....	Int 1.34; 0.314 Exh 1.24; 0.344	1.72; 0.399 1.50; 0.399
Tappet Clr—Valve Material .....	Int Hyd. Lifters; 3140 or 8440 Exh Hyd. Lifters; 21-4N	Hyd. Lifters; 8440 Hyd. Lifters; 21-4N
<b>CARBURETOR</b>		
Make, Model .....	RP, Model H	Carter WCFB (1)
Type and Size (in) .....	2-Sgl; 1.25	4 Bbl; 1.31
<b>TRANSMISSION</b>		
Standard .....	Manual	3-Speed Manual (4)
Optional .....	Corvaire Powerglide	Powerglide
Axis Ratio with		
Manual .....	3.55; 3.89 Opt	3.70; 4.11 & 4.56 Opt
Powerglide .....	3.55; 3.89 Opt	3.55
<b>CAPACITY</b>		
Oil (Refill) .....	(qt) 4	5
Water (incl heater) .....	(qt) Air cooled	16.5
Manual Transmission .....	(pt) 1.9	2 (4)
Auto. Trans. .....	(Refill-qt) 3	4.5
Rear Axle .....	(pt) 3.1	4
Gasoline .....	(gal) 11	16.4
<b>GENERAL DATA A (Four-Door Sedan)</b>		
Wheelbase .....	(in) 108	102
Over-All Length .....	(in) 180	177.2
Shipping Weight .....	(lb) (5)	2840 Convertible
Tire Size—Recm Press .....	(lb) 6.50x13-15-36	6.70x15-24-24

(1) The following engines are optional:

Optional Engine	BHP @ RPM	Torque @ RPM	CR
2-4 Bbl Carb.	245 @ 5000	300 @ 3800	9.5
2-4 Bbl, Special Cam	270 @ 6000	285 @ 4200	9.5
Fuel Injection	275 @ 5200	305 @ 4400	11.0
Fuel Inj., Special Cam	315 @ 6200	295 @ 4900	11.0

(2) DR 1110891 with dual 4-bbl carb; DR 1110915 with fuel injection; 1110914 with fuel injection and special cam; AC 44-FF spark plugs used with fuel injection.

(3) 12°BTC with two 4-bbl carbs; 8°BTC with fuel injection; 18°BTC with fuel injection and special cam.

(4) Four-speed manual transmission optional; refill capacity 1.5 pints.

(5) 2305 for 500 Series; 2315 for 700 Series.

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# CHRYSLER

CAR MODEL	Windsor	Saratoga	New Yorker
<b>ENGINE</b>			
No. Cyl-Head Type	V-8-I	V-8-I	V-8-I
Bore and Stroke (in)	4.03 x 3.75	4.03 x 3.75	4.18 x 3.75
Displacement (cu in)	383	383	413
AMA Horsepower	52.0	52.0	55.9
Max Horsepower @ rpm	305 @ 4600	325 @ 4600	350 @ 4600 (1)
Max Torque, lb-ft @ rpm	410 @ 2400	425 @ 2800	470 @ 2800 (1)
Max bmep, lb/sq in	161.4	167.3	171.6
Compression Ratio	10.1	10.1	10.1
<b>IGNITION</b>			
Spark Plug—Factory Eqpt	AL A42	AL A42	AL A42
Alternate		Champ J-12Y, AC	448
Spark Plug Gap (in)	.035	.035	.035
Firing Order		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2	
Distributor Model	AL IBP-4006-C	AL IBP-4006-C	AL IBP-4006-C
Breaker Gap (in)	.014 to .019	.014 to .019	.014 to .019
Cam Angle (degrees)	27 to 32	27 to 32	27 to 32
Basic Timing	10°BTC	10°BTC	10°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in)	Int 1.95; 0.389 Exh 1.60; 0.389	1.95; 0.389 1.60; 0.389	2.08; 0.389 1.60; 0.389
Tappet Cir—Valve Material	Int Exh	Hydraulic Lifters; Sil F Hydraulic Lifters; 21-4N	
<b>CARBURETOR</b>			
Make, Model	Car BBD	Car AFB	Car AFB
Type and Size (in)	2 Bbl; 1.56	4 Bbl; Pri 1.44, Sec 1.56	
<b>TRANSMISSION</b>			
Standard	TorqueFlite	TorqueFlite	TorqueFlite
Optional			
Axle Ratio with TorqueFlite	2.93	2.93	2.93
<b>CAPACITY</b>			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 17	17	17
Manual Transmission	(pt)		
Auto. Trans.	(Refill-qt) 11	11	11
Rear Axle	(pt) 3.5	3.5	3.5
Gasoline	(gal) 23	23	23
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase	(in) 122	126	126
Over-All Length	(in) 215.4	219.4	219.6
Shipping Weight	(lb) 3815	4010	4145
Tire Size—Recm Press.	(lb) 8.00x14-24-22(2)	8.50x14-22-22	9.00x14-22-22

- (1) The C300F model uses a special engine with ram manifold, two 4-bbl carburetors and special camshaft, 375 bhp @ 5000 rpm; 495 lb-ft @ 2800 rpm. An optional engine is available with two 4-bbl carburetors and a special camshaft which develops 400 bhp @ 5200 rpm, 465 lb-ft @ 3600 rpm.
- (2) 8.50x14 tires optional.

CAR MODEL	Fireflite PS1-L	Adventurer PS3-M
<b>ENGINE</b>		
No. Cyl-Head Type .....	V-8-I	V-8-I
Bore and Stroke (in) .....	4.12 x 3.38	4.25 x 3.38
Displacement (cu in) .....	361	383
AMA Horsepower .....	54.3	57.8
Max Horsepower @ rpm .....	295 @ 4600 (1)	305 @ 4600 (1) (2)
Max Torque, lb-ft @ rpm .....	390 @ 2400 (1)	410 @ 2400 (1) (2)
Max bmep, lb/sq in .....	162.9	161.4
Compression Ratio .....	10.0	10.0
<b>IGNITION</b>		
Spark Plug—Factory Eqpt .....	AL A-42	AL A-42 (3)
Alternate .....		Champ J-12Y, AC 44S
Spark Plug Gap (in) .....	.035	.035
Firing Order .....		1-8-4-3-6-5-7-2
Distributor Model .....	AL IBP-4005C	AL IBP-4005D (4)
Breaker Gap (in) .....	.014 to .019	.014 to .019
Cam Angle (degrees) .....	27 to 32	27 to 32
Basic Timing .....	10°BTC	10°BTC (4)
Battery—Volts, Ground .....	12, Negative	12, Negative
<b>VALVES</b>		
Size and Lift (in) .....	Int 1.95; 0.389	2.08; 0.389
	Exh 1.60; 0.389	1.60; 0.389
Tappet Clr—Valve Material .....	Int Exh	Hyd. Lifters; 1041 Aluminized Hyd. Lifters; 21-4N
<b>CARBURETOR</b>		
Make, Model .....	Car BBD (1)	Car BBD (1) (2)
Type and Size (in) .....	2 Bbl; 1.56	2 Bbl; 1.56
<b>TRANSMISSION</b>		
Standard .....	Manual	TorqueFlite
Optional .....	PF or TF	
Axle Ratio with		
Manual .....	3.54	
PowerFlite .....	3.31	
TorqueFlite .....	2.93; 3.31 Opt	2.93; 3.31 Opt (5)
<b>CAPACITY</b>		
Oil (Refill) .....	(qt) 5	5
Water (Incl heater) .....	(qt) 17	17
Manual Transmission .....	(pt) 3.5	
Auto. Trans. .... (Refill-qt)		PowerFlite 11.5; TorqueFlite 11
Rear Axle .....	(pt) 3.5	3.5
Gasoline .....	(gal) 23	23
<b>GENERAL DATA (Four-Door Sedan)</b>		
Wheelbase .....	(in) 122	122
Over-All Length .....	(in) 215.4	217.0
Shipping Weight .....	(lb) 3865 (6)	3895 (6)
Tire Size—Recm Press .....	(lb) 8.00x14-24-22(7)	8.00x14-24-22 (7)

(1) 325 bhp @ 4600 rpm, 425 lb-ft @ 2800 rpm with optional 383 cu. in. engine with 4-bbl Carter AFB carburetor.

(2) 330 bhp @ 4800 rpm, 460 lb-ft @ 2800 rpm with ram manifold, two 4-bbl carburetors and special camshaft.

(3) AL A32 with ram manifold engine.

(4) AL IBS-4006E distributor with ram manifold, basic timing 7.5°BTC.

(5) 3.31 standard and 2.93 optional with either optional engine.

(6) Weight includes TorqueFlite transmission.

(7) 8.50x14 tires optional.

# DODGE DART

CAR MODEL	Seneca and Pioneer Six	Seneca and Pioneer V-8	Phoenix V-8
<b>ENGINE</b>			
No. Cyl-Head Type .....	6-I	V-8-I	V-8-I
Bore and Stroke (in) .....	3.4 x 4.125	3.91 x 3.31	3.91 x 3.31
Displacement (cu in) .....	225	318	318 (1)
AMA Horsepower .....	27.7	48.9	48.9
Max Horsepower @ rpm .....	145 @ 4000	230 @ 4400	255 @ 4400 (1)
Max Torque, lb-ft @ rpm .....	215 @ 2800	340 @ 2400	345 @ 2800 (1)
Max bmep, lb/sq in .....	144.1	161.2	163.6
Compression Ratio .....	8.5	9.0	9.0 (1)
<b>IGNITION</b>			
Spark Plug—Factory Eqpt .....	AL AG42	AL A42	AL A42
Alternate .....	Champ N-12Y	Champ J-12Y, AC 448	
Spark Plug Gap (in) .....	.035	.035	.035
Firing Order .....	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model .....	2095270	IBP-4003-T (2)	IBP-4003-N
Breaker Gap (in) .....	.017 to .023	.014 to .019	.014 to .019
Cam Angle (degrees) .....	36 to 42	27 to 32	27 to 32
Basic Timing .....	2.5° BTC	5° BTC (2)	10° BTC
Battery—Volts, Ground .....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in) .....	Int 1.62; 0.375 Exh 1.36; 0.368	1.84; 0.370 1.56; 0.368	1.84; 0.390 1.56; 0.389
Tappet Ctr—Valve Material .....	Int 0.010"H; 1041 Aluminized Exh 0.020"H; 21-4N	0.010"H; 1041 Aluminized 0.018"H; 21-4N	0.018"H; 21-4N
<b>CARBURETOR</b>			
Make, Model .....	Car BBS	Car BBD or Strom WW	Car AFB
Type and Size (in) .....	Sgl; 1.69	2 Bbl; 1.44	4 Bbl; 1.44 Pri, 1.56 Sec
<b>TRANSMISSION</b>			
Standard .....	Manual	Manual	Manual
Optional .....	TorqueFlite 6	PowerFlite or TorqueFlite	
Axle Ratio with			
Manual .....	3.54; 3.90 Opt	3.54; 3.31 Opt	3.54; 3.31 Opt
PowerFlite .....		3.31; 3.54 Opt	3.31; 3.54 Opt
TorqueFlite .....	3.31; 3.54 Opt	2.93; 3.31 Opt	2.93; 3.31 Opt
<b>CAPACITY</b>			
Oil (Refill) .....	(qt) 4	5	5
Water (incl heater) .....	(qt) 14	21	17
Manual Transmission .....	(pt) 5	5	5
Auto. Trans. .... (Refill-qt) .....	6.5	PowerFlite 10, TorqueFlite 9½	
Rear Axle .....	(pt) 3.25	3.5	3.5
Gasoline .....	(gal) 20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase .....	(in) 118	118	118
Over-All Length .....	(in) 208.6	208.6	208.6
Shipping Weight .....	(lb) 3430	3610	3610
Tire Size—Recm Press .....	7.50x14-22-22	7.50x14-24-22	7.50x14-24-22

- (1) D-500 engine, 361 cu. in. displacement, 10.0 CR with ram manifold and two 4-bbl carburetors is optional. 310 bhp @ 4800 rpm, 435 lb-ft @ 2800 rpm.  
 (2) IBP-4003-L distributor used on automatic transmission cars; basic timing 10°BTC.

**DODGE**

CAR MODEL	Matador	Polaris	D-500 Power Option
<b>ENGINE</b>			
No. Cyl-Head Type	V-8-I	V-8-I	V-8-I
Bore and Stroke (in)	4.12 x 3.38	4.25 x 3.38	4.25 x 3.38
Displacement (cu in)	361 (1)	383 (1)	383
AMA Horsepower	54.3	57.8	57.8
Max Horsepower @ rpm	295 @ 4600 (1)	325 @ 4600 (1)	330 @ 4800
Max Torque, lb-ft @ rpm	390 @ 2400 (1)	425 @ 2800 (1)	460 @ 2800
Max bmep, lb/sq in	162.9	167.3	181.1
Compression Ratio	10.0	10.0	10.0
<b>IGNITION</b>			
Spark Plug—Factory Eqpt	AL A42	AL A42	AL A32
Alternate	Champ J-12Y, AC 44S	Champ J-9Y, AC42S	
Spark Plug Gap (in)	.035	.035	.035
Firing Order	1 - 8 - 4 - 3 - 6 - 5 - 7 - 2		
Distributor Model	IBP-4005-C	IBP-4005-D	IBS-4006-E
Breaker Gap (in)	.014 to .019	.014 to .019	.014 to .019
Cam Angle (degrees)	27 to 32	27 to 32	34 to 40
Basic Timing	10°BTC	10°BTC	7.5°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in)	Int 1.95; 0.389 Exh 1.60; 0.389	2.08; 0.389 1.60; 0.389	2.08; 0.430 1.60; 0.430
Tappet Ctr—Valve Material	Int Exh	Hydraulic Lifters; 1041 Hydraulic Lifters 21-4N	Aluminized
<b>CARBURETOR</b>			
Make, Model	Strom WWC	Holley	2-Carter AFB
Type and Size (in)	2 Bbl; 1.56	4 Bbl; 1.44 Pri, 1.56 Sec	2-4 Bbl; 1.44 Pri, 1.69 Sec
<b>TRANSMISSION</b>			
Standard	Manual	Manual	TorqueFlite
Optional	PF or TF	TorqueFlite	
Axle Ratio with			
Manual	3.54; 3.31 Opt	3.54; 3.31 Opt	
PowerFlite	3.31; 3.54 Opt		
TorqueFlite	2.93; 3.31 Opt	2.93; 3.31 Opt	3.31; 2.93 Opt
<b>CAPACITY</b>			
Oil (Refill) (qt)	5	5	5
Water (incl heater) (qt)	17	17	17
Manual Transmission (pt)	5	3.5	
Auto. Trans. (Refill-qt)		PowerFlite 11-1/2; TorqueFlite 11	
Rear Axle (pt)	3.5	3.5	3.5
Gasoline (gal)	20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase (in)	122	122	122
Over-All Length (in)	212.6	212.6	212.6
Shipping Weight (lb)	3725	3735	NA
Tire Size—Recm Press (lb)	8.00x14-24-22	8.00x14-24-22	8.00x14-24-22

(1) D-500 engine optional.

# EDSEL

CAR MODEL	Ranger 6	Ranger V-8	352 Power Option (1)
<b>ENGINE</b>			
No. Cyl-Head Type.....	6-I	V-8-I	V-8-I
Bore and Stroke (in).....	3.625 x 3.8	3.75 x 3.3	4.0 x 3.5
Displacement (cu in).....	223	292	352
AMA Horsepower.....	31.54	45	51.2
Max Horsepower @ rpm.....	145 @ 4000	185 @ 4200	300 @ 4600 (1)
Max Torque, lb-ft @ rpm.....	206 @ 2000	292 @ 2200	381 @ 2800
Max bmepp, lb/sq in.....	139.3	150.8	163.2
Compression Ratio.....	8.4	8.8	9.6
<b>IGNITION</b>			
Spark Plug—Factory Eqpt.....	Champ 870	Champ F-14Y	Champ F-11Y
Alternate.....	BF82, 85T	BF82, 85TS	BF42, 84TS
Spark Plug Gap (in).....	.032 to .036	.032 to .036	.032 to .036
Firing Order.....	1-5-3-6-2-4	1-5-4-8-6-3-7-2	1-5-4-2-6-3-7-8
Distributor Model.....	COAF-12127-G	COAF-12127-A	COAF-12127-B
Breaker Gap (in).....	.024 to .026	.014 to .016	.014 to .016
Cam Angle (degrees).....	35 to 38	26 to 28.5	26 to 28.5
Basic Timing.....	(2)	(3)	6°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....Int	1.78; 0.369	1.65; 0.358	2.03; 0.408
Exh	1.51; 0.369	1.51; 0.356	1.56; 0.408
Tappet Ctr—Valve Material..Int	0.019"H; (4)	0.019"H; (4)	Hyd. Lifters; (4)
Exh	0.019"H; CAS	0.019"H; CAS	Hyd. Lifters; (5)
<b>CARBURETOR</b>			
Make, Model.....	Holley	Ford	Ford
Type and Size (in).....	Sgl; 1.56	2 Ebl; 1.44	4 Ebl; 1.56
<b>TRANSMISSION</b>			
Standard.....	Manual	Manual	Mile-O-Matic or Dual Drive
Optional.....	Mile-O-Matic	Mile-O-Matic	
Axle Ratio with Manual.....	3.56	3.56	
Mile-O-Matic.....	3.56	3.10	2.91
Dual Drive.....			2.91
<b>CAPACITY</b>			
Oil (Refill).....(qt)	4	5	5
Water (incl heater).....(qt)	16	20	20
Manual Transmission.....(pt)	3.5	3.5	
Auto. Trans.....(Refill-qt)	10	10	10
Rear Axle.....(pt)	4.5	4.5	4.5
Gasoline.....(gal)	20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase.....(in)	120	120	120
Over-All Length.....(in)	216.4	216.4	216.4
Shipping Weight.....(lb)	3600	3700	3842
Tire Size—Recm Press.....(lb)	7.50x14-24-24	7.50x14-24-24	8.00x14-24-24

(1) This engine is available as an option with automatic transmission

(2) 3°BTC with manual transmission; 10°BTC with automatic.

(3) 3°BTC with manual transmission; 10°BTC with automatic.

(4) SAE 1047 aluminum coated.

(5) Cast austenitic steel aluminum coated.



<b>CAR MODEL</b>		Imperial, Imperial Crown and Imperial LeBaron
<b>ENGINE</b>		
No. Cyl-Head Type .....	V-8-I	
Bore and Stroke (in) .....	4.18 x 3.75	
Displacement (cu in) .....	413	
AMA Horsepower .....	55.9	
Max Horsepower @ rpm .....	350 @ 4600	
Max Torque, lb-ft @ rpm .....	470 @ 2800	
Max bmep, lb/sq in .....	171.6	
Compression Ratio .....	10.1	
<b>IGNITION</b>		
Spark Plug—Factory Eqpt .....	Autolite A-42	
Alternate.....	Champ J-12Y, AC 44S	
Spark Plug Gap (in).....	.035	
Firing Order .....	1-8-4-3-6-5-7-2	
Distributor Model .....	Autolite IBP-4006-C	
Breaker Gap (in) .....	.014 to .019	
Cam Angle (degrees) .....	27 to 32	
Basic Timing .....	10° BTC	
Battery—Volts, Ground .....	12, Negative	
<b>VALVES</b>		
Size and Lift (in) .....	Int 2.08; 0.389	
	Exh 1.60; 0.389	
Tappet Clr—Valve Material..Int	Hydraulic Lifters; 1041 Aluminized	
	Exh Hydraulic Lifters; 21-4N	
<b>CARBURETOR</b>		
Make, Model .....	Carter AFB	
Type and Size (in) .....	4 Bbl; Pri 1.44, Sec 1.56	
<b>TRANSMISSION</b>		
Standard .....	TorqueFlite	
Optional .....		
Axle Ratio with TorqueFlite .....	2.93	
<b>CAPACITY</b>		
Oil (Refill) .....	(qt) 5	
Water (Incl heater) .....	(qt) 17	
Manual Transmission.....	(pt) 11	
Auto. Trans. .... (Refill-qt)	11	
Rear Axle .....	(pt) 3.5	
Gasoline .....	(gal) 23	
<b>GENERAL DATA (Four-Door Sedan)</b>		
Wheelbase .....	(in) 129	
Over-All Length .....	(in) 226.3	
Shipping Weight .....	(lb) 4770 (Crown)	
Tire Size—Recm Press.....	(lb) 8.20x15-24-24	

# FORD

CAR MODEL	Falcon	Fairlane, Fairlane 500 or Galaxie Six	V-8
<b>ENGINE</b>			
No. Cyl-Head Type.....	6-I	6-I	V-8-I
Bore and Stroke (in).....	3.5 x 2.5	3.625 x 3.60	3.75 x 3.30
Displacement (cu in).....	144.3	223	292 (1)
AMA Horsepower.....	29.4	31.54	45.0
Max Horsepower @ rpm.....	90 @ 4200	145 @ 4000	185 @ 4200 (1)
Max Torque, lb-ft @ rpm.....	138 @ 2000	206 @ 2000	292 @ 2200 (1)
Max bmep, lb/sq in.....	144.2	139.3	150.8
Compression Ratio.....	8.7	8.4	8.8 (1)
<b>IGNITION</b>			
Spark Plug—Factory Eqpt.....	Champ F-14Y	Champ 870	Champ F-14Y
Alternate.....	BF82, 85TS	BF82, 85T	BF82, 85TS
Spark Plug Gap (in).....	.032 to .036	.032 to .036	.032 to .036
Firing Order.....	1-5-3-6-2-4	1-5-3-6-2-4	1-5-4-8-6-3-7-2
Distributor Model.....	CODF-12127-A	COAF-12127-G	COAF-12127-A
Breaker Gap (in).....	.024 to .026	.024 to .026	.014 to .016
Cam Angle (degrees).....	35 to 38	35 to 38	26 to 28.5
Basic Timing.....	(2)	(3)	(3)
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....	Int 1.47; 0.344 Exh 1.27; 0.344	1.78; 0.369 1.51; 0.369	1.65; 0.358 1.51; 0.358
Tappet Clr—Valve Material.....	Int 0.016"H; 1047 (4) Exh 0.016"H; CAS	0.019"H; 1047 (4) 0.019"H; CAS	0.019"H; 1047 (4) 0.019"H; CAS
<b>CARBURETOR</b>			
Make, Model.....	Holley	Holley	Ford
Type and Size (in).....	Sgl; 1.44	Sgl; 1.56	2 Bbl; 1.44
<b>TRANSMISSION</b>			
Standard.....	Manual	Manual	Manual
Optional.....	Fordomatic	Fordomatic	Fordomatic or Cruise-O-Matic
Axle Ratio with			
Manual.....	3.10; 3.56 Opt	3.56	3.56
Overdrive.....	NA	3.89	3.89
Fordomatic.....	3.10; 3.56 Opt	3.56	3.10
Cruise-O-Matic.....	NA	NA	3.10
<b>CAPACITY</b>			
Oil (Refill).....(qt)	3.5	4	5
Water (incl heater).....(qt)	9.3	16	20
Manual Transmission.....(pt)	2.1	3.5 (5)	3.5 (5)
Auto. Trans. ....(Refill-qt)	7.25	10	10
Rear Axle.....(pt)	2.5	4.5	4.5
Gasoline.....(gal)	14	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase.....(in)	109.5	119	119
Over-All Length.....(in)	181.2	213.7	213.7
Shipping Weight.....(lb)	2288	3562 (6)	3662 (6)
Tire Size—Recm Press.....(lb)	6.00x13-24-24	7.50x14-24-24	7.50x14-24-24

(1) See next page for optional V-8 engines.

(2) 2"BTC with manual transmission; 10"BTC with automatic transmission.

(3) 3"BTC with manual transmission; 10"BTC with automatic transmission.

(4) Valves have aluminized throats and faces.

(5) 1.24 pints additional with overdrive.

(6) Weight given for Fairlane 500 model with manual transmission.

Fairlane, Fairlane 500  
and Galaxie  
Optional Engines

CAR MODEL	Fairlane, Fairlane 500 and Galaxie Optional Engines		Thunderbird
<b>ENGINE</b>			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.00 x 3.50	4.00 x 3.50	4.00 x 3.50
Displacement (cu in).....	352	352	352 (1)
AMA Horsepower.....	51.2	51.2	51.2
Max Horsepower @ rpm.....	235 @ 4400	300 @ 4600	300 @ 4600 (1)
Max Torque, lb-ft @ rpm.....	350 @ 2400	381 @ 2800	381 @ 2800 (1)
Max bmep, lb/sq in.....	149.9	163.2	163.2
Compression Ratio.....	8.9	9.6	9.6 (1)
<b>IGNITION</b>			
Spark Plug—Factory Eqpt ....	Champ F-11Y	Champ F-11Y	Champ F-11Y
Alternate.....		AL BP42, AC 84TS	
Spark Plug Gap (in) .....	.032 to .036	.032 to .036	.032 to .036
Firing Order .....		1 - 5 - 4 - 2 - 6 - 3 - 7 - 8	
Distributor Model .....	COAF-12127-E(2)	COAF-12127-B	COAF-12127-B
Breaker Gap (in) .....	.014 to .016	.014 to .016	.014 to .016
Cam Angle (degrees) .....	26 to 28.5	26 to 28.5	26 to 28.5
Basic Timing .....	(3)	(3)	(3)
Battery—Volts, Ground .....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....	Int 2.03; 0.408	2.03; 0.408	2.03; 0.408
Exh 1.56; 0.408		1.56; 0.408	1.56; 0.408
Tappet Cir—Valve Material..	Int Hydraulic Lifters; SAE 1047 Aluminum Coated		
Exh Hydraulic Lifters; CAS Aluminum Coated			
<b>CARBURETOR</b>			
Make, Model .....	Ford	Ford	Ford
Type and Size (in) .....	2 Bbl; 1.44	4 Bbl; 1.56	4 Bbl; 1.56
<b>TRANSMISSION</b>			
Standard .....	Manual	Manual	Manual
Optional .....	Fordomatic or Cruise-O-Matic	Cruise-O-Matic	Cruise-O-Matic
Axle Ratio with			
Manual .....	3.56	3.56	3.70
Overdrive .....	3.56	3.56	3.70
Automatic .....	2.91	2.91	3.10
<b>CAPACITY</b>			
Oil (Refill) .....	(qt) 5	5	5
Water (incl heater) .....	(qt) 20	20	20
Manual Transmission .....	(pt) 3.5	3.5	3.75
Auto. Trans. .... (Refill-qt)	10	10	10
Rear Axle .....	(pt) 4.5	4.5	4.5
Gasoline .....	(gal) 20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase .....	(in) 119	119	113
Over-All Length .....	(in) 213.7	213.7	205.3
Shipping Weight .....	(lb) 3708 (4)	3742 (4)	3805 Hardtop
Tire Size—Recm Press.....	(lb) 8.00x14-24-24	8.00x14-24-24	8.00x14-24-22
(1) 430 cu. in., 10 to 1 CR engine optional. 350 bhp @ 4600 rpm, 490 lb-ft @ 2800 rpm.			
(2) Distributor model COAF-12127-D used with automatic transmission.			
(3) 3°BTC with manual transmission; 6°BTC with automatic transmission.			
(4) Weight given for Fairlane 500 model with manual transmission.			

# **LINCOLN-CONTINENTAL**

<b>CAR MODEL</b>	<b>Lincoln and Lincoln Premiere</b>	<b>Continental Mark V</b>
<b>ENGINE</b>		
No. Cyl-Head Type .....	V-8-I	V-8-I
Bore and Stroke (in) .....	4.30 x 3.70	4.30 x 3.70
Displacement (cu in) .....	430	430
AMA Horsepower .....	59.17	59.17
Max Horsepower @ rpm .....	315 @ 4100	315 @ 4100
Max Torque, lb-ft @ rpm .....	465 @ 2200	465 @ 2200
Max bmep, lb/sq in .....	163.1	163.1
Compression Ratio .....	10.0	10.0
<b>IGNITION</b>		
Spark Plug—Factory Eqpt .....	Champ F-11Y	Champ F-11Y
Alternate .....	AL BF 42, AC 84TS	AL BF 42, AC 84TS
Spark Plug Gap (in) .....	.032 to .036	.032 to .036
Firing Order .....	1-5-4-2-6-3-7-8	1-5-4-2-6-3-7-8
Distributor Model .....	Ford B9MF 12127-B	Ford B9MF 12127-B
Breaker Gap (in) .....	.015	.015
Cam Angle (degrees) .....	26 to 28.5	26 to 28.5
Basic Timing .....	6° BTC	6° BTC
Battery—Volts, Ground .....	12, Negative	12, Negative
<b>VALVES</b>		
Size and Lift (in) .....	Int 2.09; 0.408 Exh 1.78; 0.408	2.09; 0.408 1.78; 0.408
Tappet Clr—Valve Material, Int Exh .....	Hyd. Lifters; SAE 8645 Aluminum Coated Hyd. Lifters; Cast Austenitic Steel Aluminum Coated	
<b>CARBURETOR</b>		
Make, Model .....	Carter ABD	Carter ABD
Type and Size (in) .....		2 Bbl; 1.562
<b>TRANSMISSION</b>		
Standard .....	Twin-Range Turbo Drive	
Optional .....		
Axle Ratio with Turbo Drive .....	2.89	2.89
<b>CAPACITY</b>		
Oil (Refill) .....	(qt) 5	5
Water (incl heater) .....	(qt) 26	26
Manual Transmission .....	(pt) 10.5	10.5
Auto. Trans. .... (Refill-qt)	4.8	4.8
Rear Axle .....	(gal) 25	25
Gasoline .....		
<b>GENERAL DATA (Four-Door Sedan)</b>		
Wheelbase .....	(in) 131	131
Over-All Length .....	(in) 227.2	227.2
Shipping Weight .....	(lb) 5016 (1)	5143
Tire Size—Recm Press .....	9.50x14-24-24	9.50x14-24-24

(1) Weight given for Lincoln; Premiere model weighs 5084.

# MERCURY

CAR MODEL	Monterey	Montclair	Park Lane
<b>ENGINE</b>			
No. Cyl-Head Type .....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in) .....	3.8 x 3.44	4.3 x 3.7	4.3 x 3.7
Displacement (cu in) .....	312 (1)	430	430
AMA Horsepower .....	46.21	59.17	59.17
Max Horsepower @ rpm ....	205 @ 4000 (1)	310 @ 4100	310 @ 4100
Max Torque, lb-ft @ rpm....	328 @ 2100 (1)	460 @ 2200	460 @ 2200
Max bmepp, lb/sq in .....	158.5	161.3	161.3
Compression Ratio .....	8.9 (1)	10.0	10.0
<b>IGNITION</b>			
Spark Plug—Factory Eqpt...	Champ F-14Y	Champ F-11Y	Champ F-11Y
Alternate.....	BF 82, 85TS	AL BF 42, AC 84TS	
Spark Plug Gap (in) .....	.032 to .036	.032 to .036	.032 to .036
Firing Order .....	1-5-4-8-6-3-7-2	1-5-4-2-6-3-7-8	
Distributor Model .....	COAF-12127A	B9MF-12127B	B9MF-12127B
Breaker Gap (in) .....	.015	.015	.015
Cam Angle (degrees) .....	26 to 28.5	26 to 28.5	26 to 28.5
Basic Timing .....	(2)	6°BTC	6°BTC
Battery—Volts, Ground ....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in) .....	Int. 1.65; 0.358	2.09; 0.408	2.09; 0.408
	Exh 1.51; 0.356	1.78; 0.408	1.78; 0.408
Tappet Clr —	Int. 0.019"H; 1047(3)	Hyd. Lifters; 8645 (3)	
Valve Material .....	Exh 0.019"H; CAS	Hyd. Lifters; CAS (3)	
<b>CARBURETOR</b>			
Make, Model .....	Holley 2300	Carter ABD	Carter ABD
Type and Size (in) .....	2 Bbl; 1.44	2 Bbl; 1.56	2 Bbl; 1.56
<b>TRANSMISSION</b>			
Standard .....	Manual (4)	Merc-O-Matic	Multi-Drive
Optional .....	Merc-O-Matic(4)	Multi-Drive	
Axle Ratio with			
Manual .....	3.56		
Merc-O-Matic .....	3.10 (4)	2.71; 2.91 Opt	
Multi-Drive .....		2.71; 2.91 Opt	2.71; 2.91 Opt
<b>CAPACITY</b>			
Oil (Refill) .....	(qt) 5	5	5
Water (incl heater) ....	(qt) 21	22	22
Manual Transmission ..	(pt) 3		
Auto. Trans. .... (Refill-qt)		Merc-O-Matic 10; Multi-Drive 10.5	
Rear Axle .....	(pt) 4.5	4.5	4.5
Gasoline .....	(gal) 20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase .....	(in) 126	126	126
Over-All Length .....	(in) 219.2	219.2	219.2
Shipping Weight .....	(lb) 3981	4255	4380
Tire Size—Recm Press..	(lb) 8.00x14-24-24	8.50x14-24-24	8.50x14-24-24

(1) 383 cubic inch, 8.5 to 1 CR, 2-bbl carburetor engine with 280 bhp @ 4200 rpm, 405 lb-ft @ 2200 rpm optional on Monterey models.

(2) 3°BTC with manual transmission; 6°BTC with Merc-O-Matic.

(3) Valves have aluminum coated faces and throats.

(4) Merc-O-Matic standard and Multi-Drive optional with 383 cu. in. engine. Axle ratios same as Montclair.

# OLDSMOBILE

CAR MODEL	Dynamic 88	Super 88	Ninety-Eight
<b>ENGINE</b>			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.0 x 3.69	4.125 x 3.69	4.125 x 3.69
Displacement (cu in).....	371	394	394
AMA Horsepower.....	51	54	54
Max Horsepower @ rpm.....	240 @ 4400 (1)	315 @ 4600	315 @ 4600
Max Torque, lb-ft @ rpm.....	375 @ 2400 (1)	435 @ 2800	435 @ 2800
Max bmep, lb/sq in.....	152.4	166.5	166.5
Compression Ratio.....	8.75 (1)	9.75	9.75
<b>IGNITION</b>			
Spark Plug—Factory Eqpt.....	AC 45	AC 44	AC 44
Alternate.....		Champ J-12Y, AL	A42
Spark Plug Gap (in).....	.030	.030	.030
Firing Order.....		1 - 8 - 7 - 3 - 6 - 5 - 4 - 2	
Distributor Model.....	DR 1110968	DR 1110968	DR 1110968
Breaker Gap (in).....	.016	.016	.016
Cam Angle (degrees).....	28 to 32	28 to 32	28 to 32
Basic Timing.....	5°BTC (2)	7.5°BTC (2)	7.5°BTC (2)
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....Int	1.875; 0.435	1.875; 0.435	1.875; 0.435
Exh	1.562; 0.437	1.562; 0.437	1.562; 0.437
Tappet Ctr—Valve Material.....Int	Hydraulic Lifters;	Hydraulic Lifters;	SAE 3140 or SAE 8645
Exh	Hydraulic Lifters; 21-4N	Hydraulic Lifters; 21-4N	
<b>CARBURETOR</b>			
Make, Model.....	RP 2GC	RP 4GC	RP 4GC
Type and Size (in).....	2 Bbl; 1.69	4 Bbl; 1.56 Pri, 1.69 Sec	
<b>TRANSMISSION</b>			
Standard.....	Manual	Manual	Hydra-Matic
Optional.....	Hydra-Matic	Hydra-Matic	None
Axle Ratio with			
Manual.....	3.42	3.42	NA
Hydra-Matic.....	2.87	3.07	3.23
<b>CAPACITY</b>			
Oil (Refill).....(qt)	4	4	4
Water (incl heater).....(qt)	21	21	21
Manual Transmission.....(pt)	2.5	2.5	
Auto. Trans.....(Refill-qt)	9.5	9.5	9.5
Rear Axle.....(pt)	5.38	5.38	5.38
Gasoline.....(gal)	20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase.....(in)	123	123	126.3
Over-All Length.....(in)	217.6	217.6	220.9
Shipping Weight.....(lb)	4109	4128	4353
Tire Size—Recm Press.....(lb)	8.50x14-22-20	8.50x14-22-20	9.00x14-22-20

(1) 260 bhp @ 4400; 390 lb-ft @ 2400; 9.75 CR optional.

(2) Ignition timing set at 850 rpm with vacuum advance disconnected.

# PLYMOUTH

CAR MODEL	Savoy, Belvedere and Fury 6	Savoy, Belvedere & Fury V-8	Commando Engine Option
<b>ENGINE</b>			
No. Cyl-Head Type.....	6-I	V-8-I	V-8-I
Bore and Stroke (in).....	3.4 x 4.125	3.91 x 3.31	4.12 x 3.38
Displacement (cu in).....	225	318	361
AMA Horsepower.....	27.7	48.9	54.3
Max Horsepower @ rpm.....	145 @ 4000	230 @ 4400 (1)	310 @ 4800 (2)
Max Torque, lb-ft @ rpm.....	215 @ 2800	340 @ 2400 (1)	435 @ 2800 (2)
Max bmep, lb/sq in.....	144.1	161.2	181.7
Compression Ratio.....	8.5	9.0	10.0
<b>IGNITION</b>			
Spark Plug—Factory Eqpt.....	AL AG-42	AL A-42	AL A-32
Alternate.....	N-12Y	J-12Y, 448	J-9Y, 42S
Spark Plug Gap (in).....	.035	.035	.035
Firing Order.....	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor—Make and Model..	2095270	AL IBP-4003-T(3)	AL IBS-4006-E
Breaker Gap (in).....	.017 to .023	.014 to .019	.014 to .019
Cam Angle (degrees).....	36 to 42	27 to 32	27 to 32 each
Basic Timing.....	2.5°BTC	5°BTC (4)	(5)
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....Int	1.62; 0.375	1.84; 0.370	1.95; 0.430
Exh	1.36; 0.368	1.56; 0.368	1.60; 0.430
Tappet Clr—Valve Material..Int	0.010"H; 1041 Aluminized		Hyd. Lifters; 1041 Aluminized
Exh	0.020"H; 21-4N	0.018"H; 21-4N	Hyd. Lifters; 21-4N
<b>CARBURETOR</b>			
Make, Model.....	Car BBS	Car BBD or Strom WW	Car AFB
Type and Size (in).....	Sgl; 1.69	2 Bbl; 1.44	2-4 Bbl; 1.44 Pri, 1.69 Sec
<b>TRANSMISSION</b>			
Standard.....	Manual	Manual	TorqueFlite (6)
Optional.....	TorqueFlite 6	PF or TF	
Axle Ratio with			
Manual.....	3.54; 3.90 Opt	3.54; 3.91 Opt	(6)
PowerFlite.....		3.31; 3.54 Opt	
TorqueFlite.....	3.31; 3.54 Opt	2.93; 3.31 Opt	2.93; 3.31 Opt
<b>CAPACITY</b>			
Oil (Refill).....(qt)	4	5	5
Water (Incl heater).....(qt)	15	21	17
Manual Transmission.....(pt)	5.0	5.0	3.5
Auto. Trans.....(Refill-qt)	6.5	PF 10; TF 9.5	11
Rear Axle.....(pt)	3.25	3.5	3.5
Gasoline.....(gal)	20	20	20
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase.....(in)	118	118	118
Over-All Length.....(in)	209.4	209.4	209.4
Shipping Weight.....(lb)	3370	3520	NA
Tire Size—Recm Press.....(lb)	7.50x14-22-22	7.50x14-24-22	7.50x14-24-22

- (1) Optional power pak engine with 4-bbl Carter AFB carburetor and special camshaft, 260 bhp @ 4400 rpm, 345 lb-ft @ 2800 rpm available on all V-8 models.
- (2) Data shown for engine with ram tuned manifold. With standard manifold and one 4-bbl carburetor 305 bhp @ 4800 rpm, 395 lb-ft @ 3000 rpm.
- (3) With automatic transmission AL IBP-4003-L; Power Pak AL IBP-4003-P.
- (4) 10°BTC with automatic transmission.
- (5) 10°BTC with 4-bbl carburetor; 5°BTC with Sono-Ramie manifold.
- (6) With 4-bbl carburetor engine manual transmission with 3.31 axle ratio is standard, TorqueFlite optional.

Brief Passenger Car Data for 1960

January 1, 1960

# PONTIAC

CAR MODEL	Catalina and Ventura	Star Chief	Bonneville
<b>ENGINE</b>			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.06 x 3.75	4.06 x 3.75	4.06 x 3.75
Displacement (cu in).....	389	389	389
AMA Horsepower.....	52.8	52.8	52.8
Max Horsepower @ rpm.....	215 @ 3600 (1) (3)	281 @ 4500 (2) (3)	
Max Torque, lb-ft @ rpm.....	390 @ 2000 (1) (3)	407 @ 2600 (2) (3)	
Max bmep, lb/sq in.....	151.2	151.2	157.8
Compression Ratio.....	8.6 (1) (3)	8.6 (1) (3)	8.6 (2) (3)
<b>IGNITION</b>			
Spark Plug—Factory Eqpt.....	AC 45S	AC 45S	AC 45S
Alternate.....		AL A52, Champ J-12Y	
Spark Plug Gap (in).....	.033 to .038	.033 to .038	.033 to .038
Firing Order.....		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2	
Distributor Model.....		DR 1110971 with 8.6 CR;	
		DR 1110970 with 10.25 and 10.75 CR	
Breaker Gap (in).....	.016	.016	.016
Cam Angle (degrees).....	28 to 32	28 to 32	28 to 32
Basic Timing.....	6°BTC	6°BTC	6°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in).....	Int 1.88; 0.33 Exh 1.60; 0.33	1.88; 0.33 1.60; 0.33	1.88; 0.40 1.60; 0.40
Tappet Clr—Valve Material.....	Int Hyd. Lifters; Manganese Moly. Aluminum Treated		
	Exh Hyd. Lifters; TXCR Aluminum Treated		
<b>CARBURETOR</b>			
Make, Model.....	RP 2GC	RP 2GC	Car AFB
Type and Size (in).....	2 Bbl; 1.44	2 Bbl; 1.44	4 Bbl; 1.44 Pri, 1.69 Sec
<b>TRANSMISSION</b>			
Standard.....	Manual	Manual	Manual
Optional.....	Hydra-Matic	Hydra-Matic	Hydra-Matic
Axle Ratio with Manual.....		3.23 Std; 3.08 and 3.42 Opt	
Hydra-Matic.....		3.08 Std; 2.87 and 3.23 Opt (4)	
<b>CAPACITY</b>			
Oil (Refill).....(qt)	5	5	5
Water (incl heater).....(qt)	22.2	22.2	22.2
Manual Transmission.....(pt)	1.8	1.8	1.8
Auto. Trans. ....(Refill-qt)	8.25	8.25	8.25
Rear Axle.....(pt)	5.5	5.5	5.5
Gasoline.....(gal)	23	23	23
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase.....(in)	122	124	124
Over-All Length.....(in)	213.7	220.7	220.7
Shipping Weight.....(lb)	3935	3990	4065
Tire Size—Recm Press.....(lb)		8.00x14-22-22 Std.; 8.50x14-20-20 Opt.	
(1) A 10.25 CR, 283 bhp @ 4400, 413 lb-ft @ 2800 rpm engine is used with Hydra-Matic transmission.			
(2) A 10.25 CR 303 bhp @ 4600, 425 lb-ft @ 2800 rpm engine is used with Hydra-Matic transmission.			
(3) The following optional engines are available on all models:			
BHP @ RPM	Torque @ RPM	CR	Carburetor
215 @ 3800	390 @ 2000	8.6	2-Bbl
318 @ 4600	430 @ 3200	10.75	3-2 Bbl
333 @ 4800	425 @ 2800	10.75	4-Bbl
348 @ 4800	430 @ 3200	10.75	3-2 Bbl
(4) With 215 bhp economy engine, 2.87 on Bonneville, 2.69 on all others.			
			Transmission
			HM
			SM, HM
			SM, HM
			SM, HM



# RAMBLER

CAR MODEL	Rambler American	Rambler Six
<b>ENGINE</b>		
No. Cyl-Head Type .....	6-L	6-I
Bore and Stroke (in) .....	3.125 x 4.25	3.125 x 4.25
Displacement (cu in) .....	195.6	195.6
AMA Horsepower .....	23.44	23.44
Max Horsepower @ rpm .....	90 @ 3800	127 @ 4200 (1)
Max Torque, lb-ft @ rpm .....	150 @ 1600	180 @ 1600 (1)
Max bmeep, lb/sq in .....	115.7	138.5
Compression Ratio .....	8.0	8.7
<b>IGNITION</b>		
Spark Plug—Factory Eqpt .....	Autolite AL-7 or Champion H-10	
Alternate .....	AC 45L	
Spark Plug Gap (in) .....	.033 to .037	.033 to .037
Firing Order .....	1-5-3-6-2-4	
Distributor Model .....	AL IAT-4402	DR 1112434
Breaker Gap (in) .....	.017 to .022	.016
Cam Angle (degrees) .....	37 to 41	28 to 35
Basic Timing .....	3°BTC	5°BTC
Battery—Volts, Ground .....	12, Negative	12, Negative
<b>VALVES</b>		
Size and Lift (in) .....	Int 1.469; 0.324	1.594; 0.366
Exh 1.281; 0.322		1.343; 0.361
Tappet Ctr—Valve Material .....	Int 0.016°C; SII 1 or XB	0.012"H; SII 1 or XB
Exh 0.018°C; SII 10		0.016"H; SII 10
<b>CARBURETOR</b>		
Make, Model .....	Carter YF	Holley 1904-FC (1)
Type and Size (in) .....	Sgl; 1.44	Sgl; 1.44
<b>TRANSMISSION</b>		
Standard .....	Manual	Manual
Optional .....	Overdrive or Flash-O-Matic	
Axis Ratio with		
Manual .....	3.31; 3.78 Opt	3.78; 4.11 & 4.38 Opt
Overdrive .....	3.78; 4.11 Opt	4.11; 4.38 Opt
Flash-O-Matic .....	3.31	3.31; 3.78 Opt
<b>CAPACITY</b>		
Oil (Refill) .....	(qt) 4	4
Water (incl heater) .....	(qt) 12	11
Manual Transmission .....	(pt) 1.5 (2)	1.5 (2)
Auto. Trans. .... (Refill-qt)	10	10
Rear Axle .....	(pt) 3	3
Gasoline .....	(gal) 22	22
<b>GENERAL DATA (Four-Door Sedan)</b>		
Wheelbase .....	(in) 100	108
Over-All Length .....	(in) 178.32	189.5
Shipping Weight .....	(lb) 2521 (Super)	2948 (Super)
Tire Size—Recm Press .....	(lb) 5.80x15-24-24 (3)	6.40x15-24-24 (4)

(1) 138 bhp @ 4500, 185 lb-ft @ 1800 with optional Carter WCD 2-bbl carburetor.

(2) 1.25 pints additional with overdrive.

(3) 6.40x15 tires optional.

(4) 6.70x15 tires optional.

# RAMBLER

CAR MODEL	Rambler Rebel	Rambler Ambassador
<b>ENGINE</b>		
No. Cyl-Head Type	V-8-I	V-8-I
Bore and Stroke (in)	3.5 x 3.25	4 x 3.25
Displacement (cu in)	250	327
AMA Horsepower	39.2	51.2
Max Horsepower @ rpm	200 @ 4900 (1)	250 @ 4700 (2)
Max Torque, lb-ft @ rpm	245 @ 2500 (1)	340 @ 2600 (2)
Max bmep, lb/sq in	147.8	156.8
Compression Ratio	8.7	8.7 (2)
<b>IGNITION</b>		
Spark Plug—Factory Eqpt	Autolite AL-7 or Champion H-10	
Alternate	AC 45L	
Spark Plug Gap (in)	.033 to .037	.033 to .037
Firing Order	1-8-4-3	6-5-7-2
Distributor Model	AL IBP-4104A	AL IBP-4104
Breaker Gap (in)	.014 to .019	.014 to .019
Cam Angle (degrees)	28 to 32	28 to 32
Basic Timing	TDC	TDC (3)
Battery—Volts, Ground	12, Negative	12, Negative
<b>VALVES</b>		
Size and Lift (in)	Int 1.787; 0.375 Exh 1.406; 0.375	1.787; 0.375 1.406; 0.375
Tappet Clr—Valve Material	Int 0.012"H; Sil 1 or XB Exh 0.014"H; 21-4N	Hyd. Lifters; Sil 1 or XB Hyd. Lifters; 21-4N
<b>CARBURETOR</b>		
Make, Model	Holley 2040	Holley 2040
Type and Size (in)	2 Bbl; 1.44 (1)	2 Bbl; 1.44 (2)
<b>TRANSMISSION</b>		
Standard	Manual	Manual
Optional	Overdrive or	Flash-O-Matic
Axle Ratio with		
Manual	4.10; 4.44 Opt	3.54; 4.10 Opt
Overdrive	4.10; 4.44 Opt	3.54; 4.10 Opt
Flash-O-Matic	3.15; 3.55 Opt	2.87; 3.15 Opt
<b>CAPACITY</b>		
Oil Refill	(qt) 4	4
Water (incl heater)	(qt) 21	20
Manual Transmission	(pt) 2.25 (4)	4 (5)
Auto. Trans.	(Refill-qt) 10	11
Rear Axle	(pt) 4	4
Gasoline	(gal) 22	22
<b>GENERAL DATA (Four-Door Sedan)</b>		
Wheelbase	(in) 108	117
Over-All Length	(in) 189.5	198.5
Shipping Weight	(lb) 3282 (Super)	3414
Tire Size—Recm Press	(lb) 7.50x14-24-24	8.00x14-22-20

(1) 215 bhp @ 4900 rpm and 260 lb-ft @ 2500 rpm with optional 4-bbl carburetor.

(2) With optional 4-bbl carburetor, 9.7 CR, 270 bhp @ 4700 rpm, 360 lb-ft @ 2600 rpm.

(3) 5° BTC for optional 9.7 CR engine.

(4) Overdrive requires 1.25 pints additional.

(5) Total capacity of overdrive and manual transmission is 4 pints.

# STUDEBAKER

CAR MODEL	Lark 6	Lark V-8	Hawk Coupe
<b>ENGINE</b>			
No. Cyl-Head Type	6-L	V-8-1	V-8-1
Bore and Stroke (in)	3.0 x 4.0	3.56 x 3.25	3.56 x 3.025
Displacement (cu in)	169.6	259.2	289
AMA Horsepower	21.6	40.6	40.6
Max Horsepower @ rpm	90 @ 4000	180 @ 4500 (1)	210 @ 4500 (2)
Max Torque, lb-ft @ rpm	145 @ 2000	260 @ 2800 (1)	300 @ 2800 (2)
Max bmep, lb/sq in	128.9	151.3	156.5
Compression Ratio	8.3	8.8	8.8
<b>IGNITION</b>			
Spark Plug—Factory Eqpt	Champ J-7	Champ H-18Y	Champ H-18Y
Alternate	AL A5, AC 44	AL AL82, AC 45LS	
Spark Plug Gap (in)	.028 to .033	.033 to .038	.033 to .038
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model	AL IAT-4403	DR1110969	DR 1110969
Breaker Gap (in)	.020	.013 to .018	.013 to .018
Cam Angle (degrees)	38 to 40	28 to 32	28 to 34
Basic Timing	2°BTC	4°BTC	4°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
<b>VALVES</b>			
Size and Lift (in)	Int 1.34; 0.34 Exh 1.28; 0.34	1.66; 0.359 1.53; 0.359	1.66; 0.359 1.53; 0.359
Tappet Clr—Valve Material	Int 0.018°C; 8645 Exh 0.018°C; 2112	0.026°C or 0.024°H; 8645 0.026°C or 0.024°H; 2112N	
<b>CARBURETOR</b>			
Make, Model	Carter AS	Strom WW (1)	Strom WW (2)
Type and Size (in)	Sgl; 1.25	2 Bbl; 1.25	2 Bbl; 1.25
<b>TRANSMISSION</b>			
Standard	Manual	Manual	Manual
Optional		Overdrive or Flightomatic	
Axle Ratio with			
Manual	3.73	3.31	3.31
Overdrive	4.1	3.54	3.54
Flightomatic	3.73	3.07	3.07
<b>CAPACITY</b>			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 12	18	18
Manual Transmission	(pt) 2.3 (3)	3.8 (4)	3.8 (4)
Auto. Trans.	(Refill-qt) 9	9	9
Rear Axle	(pt) 2.5	2.5	3
Gasoline	(gal) 18	18	18
<b>GENERAL DATA (Four-Door Sedan)</b>			
Wheelbase	(in) 108.5	108.5	120.5
Over-All Length	(in) 175	175	204
Shipping Weight	(lb) 2619 (Regal)	2966 (Regal)	3205
Tire Size—Recm Press	(lb) 5.90x15-24-20	6.40x15-24-20	6.70x15-24-20

- (1) 195 bhp @ 4500 rpm; 265 lb-ft @ 3000 rpm with 4-barrel Carter WCFB carburetor and dual exhaust.  
 (2) 225 bhp @ 4500 rpm; 305 lb-ft @ 3000 rpm with optional 4-barrel Carter WCFB carburetor and dual exhaust.  
 (3) 3.15 pints total capacity with overdrive.  
 (4) 4.06 pints total capacity with overdrive.

**VAUANT****CAR MODEL** V-100 and V-200**ENGINE**

No. Cyl-Head Type	6-1
Bore and Stroke (in)	3.4 x 3.125
Displacement (cu in)	170
AMA Horsepower	27.7
Max Horsepower $\frac{1}{2}$ rpm	101 $\frac{1}{2}$ 4400
Max Torque, lb-ft $\frac{1}{2}$ rpm	155 $\frac{1}{2}$ 2400
Max bmep, lb/sq in	137.5
Compression Ratio	8.5

**IGNITION**

Spark Plug—Factory Eqpt	AL AG42
Alternate	Champ N-12Y
Spark Plug Gap (in)	.035
Firing Order	1-5-3-6-2-4
Distributor Model	Chrysler 1889750
Breaker Gap (in)	.017 to .023
Cam Angle (degrees)	36 to 42
Basic Timing	5°BTC
Battery—Volts, Ground	12, Negative

**VALVES**

Size and Lift (in)	Int 1.62; 0.375
	Exh 1.36; 0.369
Tappet Clr—Valve Material	Int 0.010"H; 1041 Aluminized
	Exh 0.020"H; 21-4N

**CARBURETOR**

Make, Model	Carter BBS
Type and Size (in)	Sgl; 1.56

**TRANSMISSION**

Standard	Manual
Optional	Three Speed Automatic
Axle Ratio with	
Manual	3.55; 3.23 Opt
Automatic	3.55; 3.23 Opt

**CAPACITY**

Oil (Refill)	(qt) 4
Water (incl heater)	(qt) 14
Manual Transmission	(pt) 5
Auto. Trans.	(Refill-qt) 6.5
Rear Axle	(pt) 2
Gasoline	(gal) 13

**GENERAL DATA (Four-Door Sedan)**

Wheelbase	(in) 108.5
Over-All Length	(in) 184.0 (1)
Shipping Weight	(lb) 2855 (V-200)
Tire Size—Recm Press	(lb) 6.50x13-24-24

(1) 183.7 for V-100.

## **AUTOMATIC TRANSMISSIONS**

### **American Motors**

#### ***Flash-O-Matic (Rambler)***

This transmission is composed of a three-element torque converter and a multiple pinion compound planetary gearset to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.12:1. In D-1 position drive starts through the torque converter and low gear ratio (2.40:1), shifts to torque converter plus intermediate ratio (1.47:1) and then shifts to converter only. In D-2 position transmission starts in intermediate gear and shifts to direct.

### **Chrysler Corporation**

#### ***PowerFlite (DeSoto, Dodge, Plymouth)***

This transmission consists of a three-element torque converter and two planetary gearsets providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.2:1. Normal drive starts through the torque converter and low gear ratio (1.72:1) and automatically shifts to converter only.

#### ***TorqueFlite (Chrysler, DeSoto, Dodge, Imperial, Plymouth, Valiant)***

This transmission consists of a three-element torque converter and two planetary gearsets providing three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.2. Normal drive starts through the converter and low gear ratio (2.45:1), shifts to torque converter plus intermediate ratio (1.45:1) and then shifts to converter only.

### **Ford Motor Company**

#### ***Fordomatic and Mile-O-Matic (Ford, Falcon, Edsel)***

This transmission consists of a three-element torque converter with a multiple pinion planetary gearset providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.4 to 2.6:1. Normal drive starts through the torque converter and low gear ratio (1.75:1) and automatically shifts to converter only.

### ***Merc-O-Matic (Mercury Monterey and Montclair)***

This transmission is composed of a three-element torque converter and a multiple pinion planetary gear system to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.1. Normal drive starts through the torque converter and intermediate gear ratio (1.47:1) and automatically shifts to converter only, depending on throttle opening and car speed. Low gear (2.40:1) can be engaged for added acceleration from a standstill or from low vehicle speeds by depressing the accelerator to the floor.

### ***Cruise-O-Matic, Dual Drive, Multi-Drive and Turbo-Drive (Ford, Edsel, Mercury, Lincoln, Thunderbird)***

This transmission is composed of a three-element torque converter and a multiple pinion planetary gear system to produce three forward speeds and reverse. The drive is always through the converter, which has a maximum torque multiplication of 2.1:1. Normal drive in D-1 position starts through the torque converter and low gear ratio (2.40 or 2.37), shifts to torque converter plus intermediate ratio (1.47 or 1.48) and then shifts to converter only. In D-2 position the transmission starts in intermediate gear and then shifts to direct.

## **General Motors Corporation**

### ***Twin Turbine (Buick)***

This transmission consists of a five-element torque converter and a multiple pinion planetary gearset providing low and reverse ratios. The two turbine elements of the converter are interconnected through a planetary gearset of 1.6:1 ratio. The stator vanes are pivoted in the vane carrier and their pitch is controlled by a hydraulic piston in response to accelerator position. The maximum torque multiplication of the converter is 3.4 in the high stator pitch and 3.1 in the low pitch position. No additional gearing, other than the internal gearing between the turbines, is used for normal forward driving. The drive is always through the converter. Low range, 1.82:1 gear ratio, can be manually engaged for extra pulling power and engine braking.

### ***Powerglide (Chevrolet, Corvair and Corvette)***

This transmission consists of a three-element torque converter with a multiple pinion planetary gearset providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.1:1 (Corvair 2.6:1). Normal drive starts through the torque converter and low gear ratio (1.82:1) and automatically shifts to converter only.

### ***Turboglide (Chevrolet)***

This transmission consists of a five-element torque converter consisting of three turbines, a variable pitch stator and a torque converter pump. Two of the turbines are connected individually to the output shaft through the elements of two simple planetary gearsets. The stator vanes are pivoted in the vane carrier and their pitch is controlled by a hydraulic piston in response to accelerator position. The maximum torque multiplication of the converter is 4.2:1 in the high stator pitch position and 3.8 in the low position. No additional gearing other than the internal gearing between the turbines and the output shaft is provided. A hydraulic retarder is used for downhill braking.

### ***Hydra-Matic (Cadillac, Oldsmobile, Pontiac)***

This transmission consists of two fluid couplings and three planetary gearsets providing four forward speeds and reverse. The large fluid coupling is used for the transmission of power. The small fluid coupling acts as a clutch in the forward planetary gearset. The shifts are automatic and vary with car speed and accelerator position. Ratios are as follows: first, 3.97:1; second, 2.55:1; third, 1.55:1; and fourth, 1:1.

### **Studebaker-Packard Corporation**

#### ***Flightomatic (Studebaker)***

This transmission is composed of a three-element torque converter and a multiple pinion compound planetary gearset to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.15:1. In the Lark VI normal drive starts through the torque converter and low gear ratio (2.40:1), shifts to torque converter plus intermediate ratio (1.47:1) and then shifts to converter only. In the Lark VIII and Hawk the transmission starts through the torque converter and intermediate gear and then shifts to converter only. Low ratio can be engaged for added acceleration by depressing the accelerator to the floor.

# SPARK PLUG HEAT

← HOTTER →						
AC	14 mm 3/8" Reach	C49	48 48X	46 R46 R46S*	R45 45S* 45 R45S*	
	14 mm 7/16" Reach		47L		45L 45LS*	
	14 mm 1/2" Reach					
	14 mm 3/4" Reach		47XL	46XL	45XL R45XL R45XLS*	
	18 mm 60° Seat			86T 86TS*	85T R85T 85TS* R85TS*	
CHAM- PION	14 mm 3/8" Reach		UJ-12	J-11	J-8 J-18Y*	
	14 mm 7/16" Reach		H-12	H-11	H-10 H-14Y*	
	14 mm 1/2" Reach					
	14 mm 3/4" Reach				N-18	
	18 mm 60° Seat				870 F-14Y*	
AUTO- LITE	14 mm 3/8" Reach	A11	AR10 AT10	A9	AR8 AR82* AR80 AR82* 4S-140 AT8	A7
	14 mm 7/16" Reach	AL11		AL9	ARL8 ARL82* ATL8 AL82*	AL7
	14 mm 1/2" Reach					
	14 mm 3/4" Reach			4GS125	4GS-150 AGR82*	AG7
	18 mm 60° Seat				BRF8 BF82* BRF82*	BF7

\* Plugs with extended gap design



# RANGE COMPARISONS

COLDER					
44 R44	R44S* 44S*	43 R43	42 42S* R42S*	14 mm 3/8" Reach	AC
		43L		14 mm 1/4" Reach	
	44FF			14 mm 1/2" Reach	
44N	R44XLS* R44XL	43N	C42N	14 mm 3/4" Reach	
		84T 84TS*	C83T	18 mm 60° Seat	
J-7	J-12Y* XJ-12Y*	J-6	J-5 J-9Y* J-58R	14 mm 3/8" Reach	CHAM- PION
	H-8			14 mm 1/4" Reach	
				14 mm 1/2" Reach	
N-8	N-5	UN-12Y* XN12Y*	N-3	14 mm 3/4" Reach	
	860 F-11Y*		F-10	18 mm 60° Seat	
AT6	AR 5 A52* AR51 AR52* A5	AR4 A42* AR41 AR42* AT4 AT42*	A3 AT3 AR32* 4S-250 A32* AR31	14 mm 3/8" Reach	AUTO- LITE
	AL5 ARL5	ATL4		14 mm 1/4" Reach	
		AE42*		14 mm 1/2" Reach	
	AGR51 AGR52* 4GS-175 AG52* AG5	AG42 AGR41 AGR42*	AGR32* AGR31 AG3	14 mm 3/4" Reach	
BTF6		BRF42* BF42*	BTF3	18 mm 60° Seat	

# TREND IN ANTIKNOCK QUALITY OF REGULAR GASOLINES SOLD IN THE UNITED STATES

